

FIG. 2

### **APPS Processing Steps**

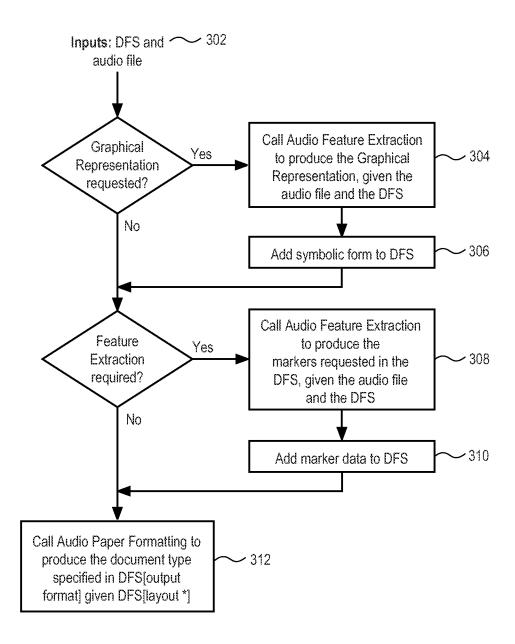


FIG. 3

## **Audio Paper Formatting module**

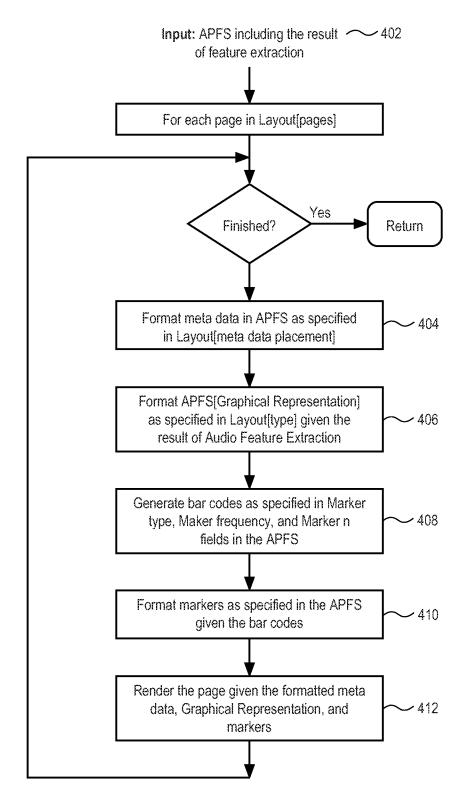


FIG. 4

#### Bar code generation

#### Inputs:

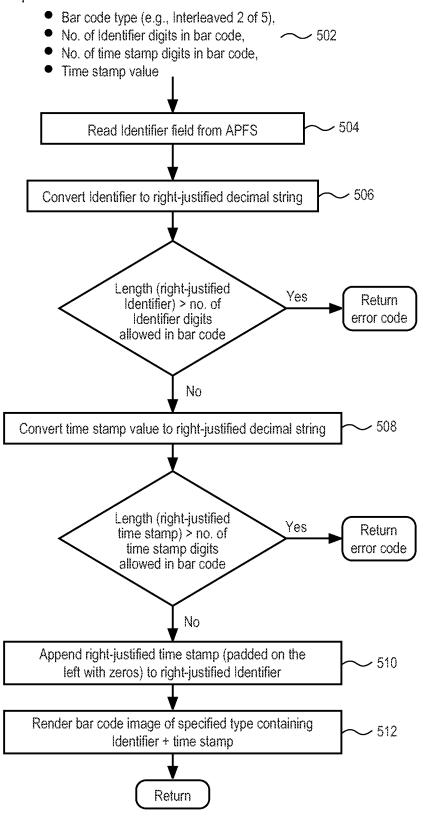


FIG. 5

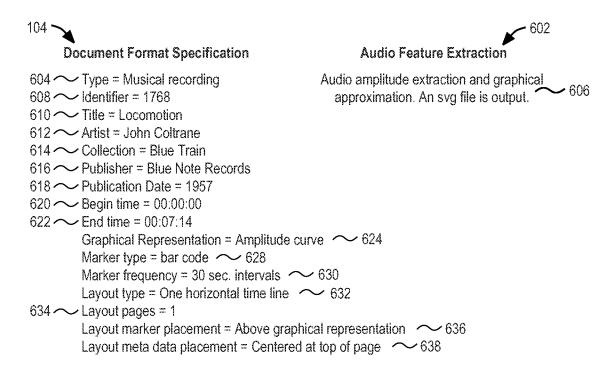


FIG. 6a

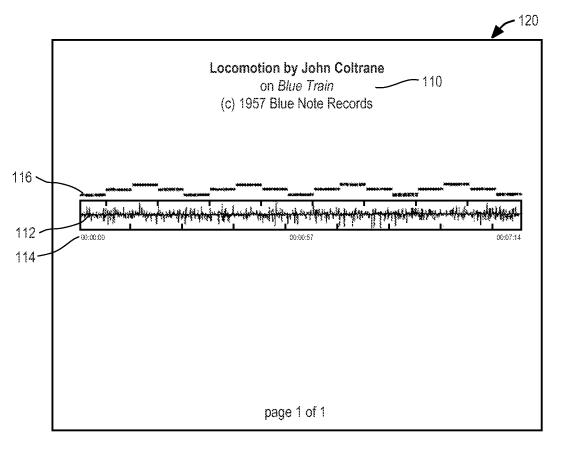
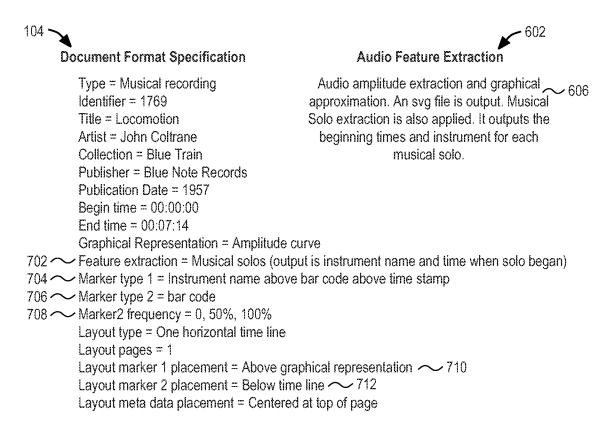


FIG. 6b



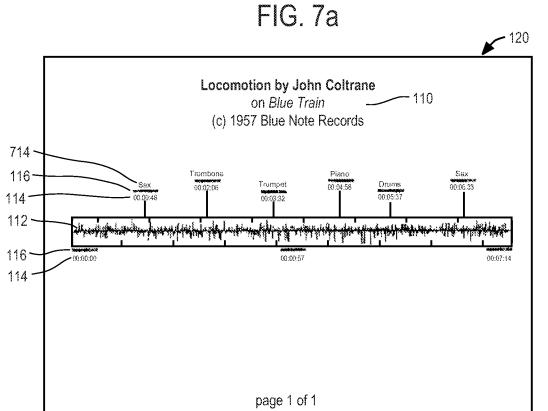


FIG. 7b

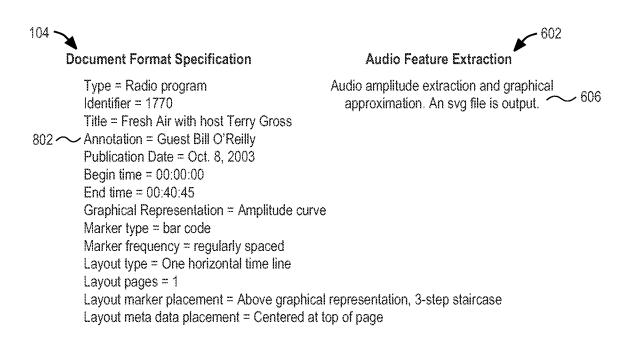


FIG. 8a

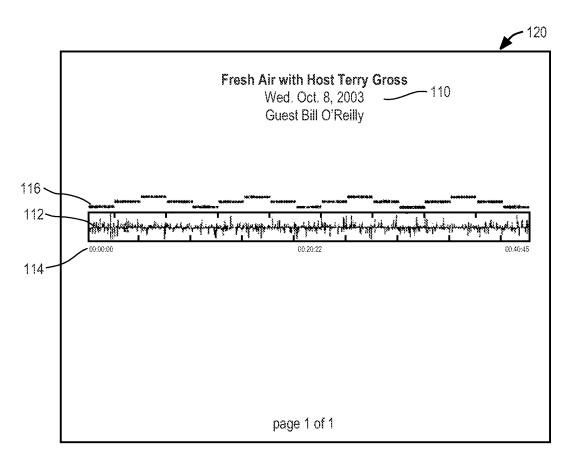


FIG. 8b

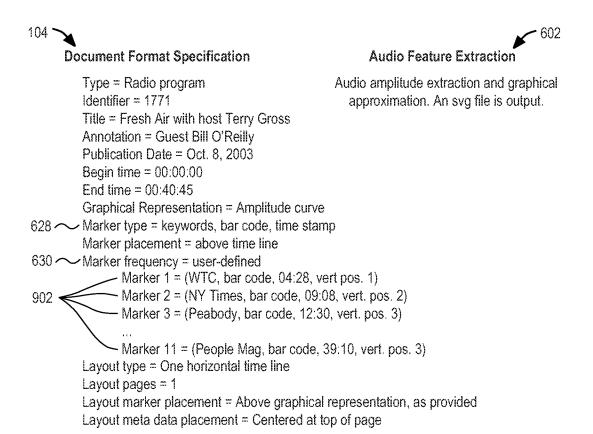


FIG. 9a

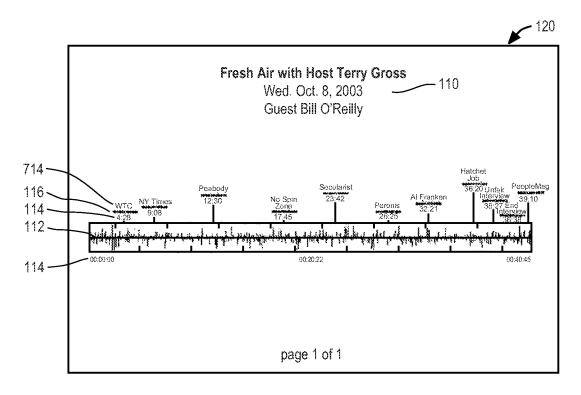


FIG. 9b

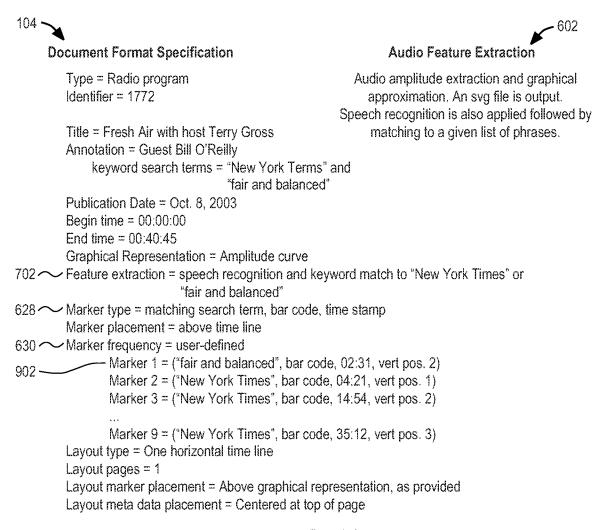


FIG. 10a

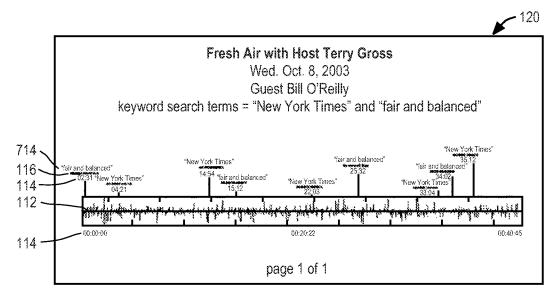


FIG. 10b



Applause detection outputs time stamps.

Title = A Prairie Home Companion Annotation = applause events shown Publication Date = Sun. Oct. 12, 2003 Begin time = 00:00:00 End time = 01:58:56 Graphical Representation = Amplitude curve

702 Feature extraction = applause detection alpha=0.27 beta=1.86

Marker type = time stamp, bar code Marker placement = above time line Marker frequency = user-defined

> Marker 1 = (00:02:13, bar code, pos. 1)Marker 2 = (00:10:54, bar code, pos. 2)Marker 3 = (00:12:32, bar code, pos. 3)

Marker 16 = (01.56.01, bar code, pos. 2)Layout type = One horizontal time line

Layout pages = 1

Layout marker placement = Above graphical representation, as provided Layout meta data placement = Centered at top of page

# FIG. 11a

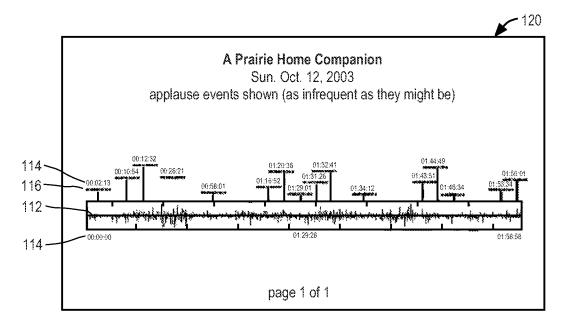
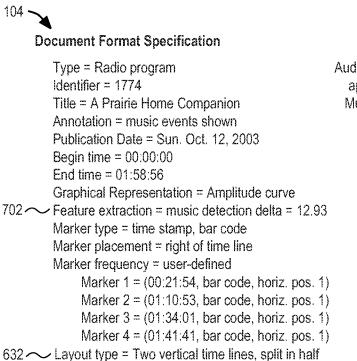


FIG. 11b



Layout pages = 1

# 602 **Audio Feature Extraction**

Audio amplitude extraction and graphical approximation. An svg file is output. Music detection outputs time stamps.

Layout marker placement = To right of graphical representation, as provided Layout meta data placement = Centered at top of page



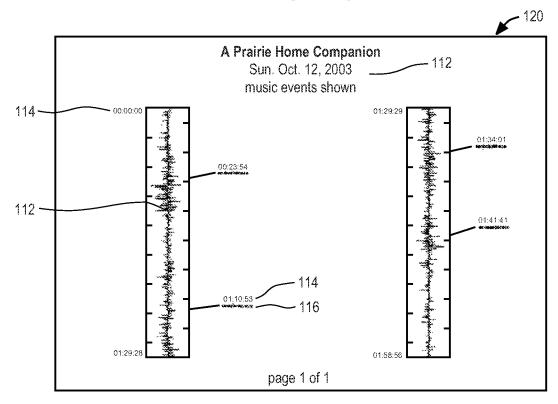


FIG. 12b